Software Requirement Specification for Hotel management System

1. Introduction

1.1 Purpose: The Document defines the functional & Non-Functional requirements for the development of the HMS.

1.2 Scope: The HMS automates the room booking, customer management, employee handling, and payment processing, improving efficiency and reducing manual operations.

1.3 Overview: HMS manages room reservation, customer data, employee schedules, payments, and reporting.

2. General Description

2.1 ~~Functions~~ Room Reservations: Book rooms online

2.2 Customer Management: Track customer details & history

2.3 Employee ~~?~~ : Manage employee roles and shifts

2.4 Payments: Process various payment methods

2.5 Reporting: Generate operational & financial reports

3. Functional Requirements

3.1 Room Booking: Search availability and book rooms

3.2 Customer & Employee Management: Add, edit, and manage records

3.3 Payments: Support online payment options

3.4 Reporting: Generate booking and financial reports

4. Interface Requirements

4.1 UI: Web-based for staff and customers.

4.2 Software Interface: Integration with MySQL.

5. Performance Requirements

5.1 Scalability: Handle up to 1000 transactions/day.

5.2 Response Time: Booking requests under 3 seconds

5.3 Uptime: 99.9% system availability.

6. Design Constraints:
6.1 Must use existing payment gateways.

6.2 Compatible with web browsers and Mobile platform.

7. Non-Functional:
7.1 Security: Data Encryption & MFA

7.2 Scalability: Easily add new Hotels.

8. Schedule & Budget:
8.1 Timeline: 6 mon for dev & 2 month for Test

8.2: $RE = 20,000 \mid D \& P = 70,000 \mid V \& V = 30,000 \mid SE = 30,000 \mid$ Total